

# SENG2021

## Deliverable One

*Team: intelligence;*



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# Part 1

## Problem Statement

- People have ingredients at home that they do not know how to utilise in a meal plan
- There is no website that can easily show recipes of ingredients that match all of the user's requirements such as diet plan, nutrient intake, cuisine, meal type and cooking time.
- Although there may be websites with similar functions, they are hard to navigate and have outdated interfaces which can deter users from using it.
- Recipes found online often contain ingredients which may not be easily available or need to be bought.

# Part 2

## User Stories

**Feature** Find recipes based upon selected ingredients

**As a** person with limited ingredients at home

**So that** I can find recipes without having to buy more ingredients

**I want to** search through recipes that contains ingredients that I have

**GIVEN** I am on the recipe finder website

**WHEN** I click "add an ingredient"

**THEN** I put in all my wanted ingredients

**WHEN** I press the "Search" button

**THEN** the website displays recipes that match my ingredients sorted from best to least matched recipes

**Feature** Filter recipes based upon selected dietary requirements

**As a** person who is vegan

**So that** I can find vegan recipes

**I want to** filter the suggested recipes by specifying what I cannot eat

**GIVEN** I am on the recipe finder website

**WHEN** I press filters

**THEN** I put in all my dietary requirements

**WHEN** I press the "search" button

**THEN** the website displays all recipes that are vegan sorted by best matched to least matched

**Feature** Sort recipes based on nutrient information

**As a** person who follows keto diet

**So that** I can find low-carb recipes

**I want to** filter the suggested recipes by nutrients per serving size

**GIVEN** I am on the website

**WHEN** I type the ingredients

**AND** click on filter by nutrients, specifically by selecting calories and protein

**THEN** I can see a list of low-carb recipes that meets my desired calorie and protein intake

**Feature:** Filter recipes by negative search

**As a** person who dislikes onion and garlic

**So that** I can find recipes that do not include onion and garlic

**I want to** filter recipes by negative search, selecting the foods I want excluded

**GIVEN** I am on the recipe finder website

**WHEN** I click on “exclude ingredients”

**THEN** I can choose ‘onion’ and ‘garlic’ to exclude

**WHEN** I click the “search/filter” button

**THEN** I should see all the recipes that do not include the ingredients I selected

**Feature:** Filter recipes by time range

**As a** busy full-time student / part-time employee

**So that** I can cook a meal in less than thirty minutes

**I want to** filter recipes based on their total time to make

**GIVEN** I am on the recipe finder website

**WHEN** I click on “time range”

**WHEN** I choose a time range of 1min to maximum 30 minutes

**AND** I click on “search”

**THEN** I should see all the recipes that can be made within 30 minutes sorted by match

**Feature:** Filter by cuisine

**As a** person who prefers Thai food

**So that** I can find recipes for Thai food

**I want to** filter recipes by cuisine

**GIVEN** I am on the recipe finder website

**WHEN** I click on ‘filter by cuisine’

**THEN** I choose Thai as my preferred cuisine

**WHEN** I click on ‘search’

**THEN** only Thai cuisine recipes should be displayed sorted by best matched to least matched

**Feature:** Filter by meal type (main/dessert)

**As a** person who wants to make a dessert,

**I want to** be able to search for dessert recipes

**So that** I can filter out the savoury options and prepare an appropriate dish

**GIVEN** I have entered all my ingredients,

**WHEN** I click on “meal type”

**THEN** I choose the sweet option

**WHEN** I click on ‘search’

**THEN** I should only see various dessert options which contain my ingredients, sorted from the best match to lowest match

**Feature:** Display recipes which include 1 or 2 extra ingredients

**As a** person who wants to use up the ingredients in the pantry,

**So that** I still have a lot of options of dishes to make,

**I want to** be able to select dishes including just a few extra ingredients which I am lacking

**GIVEN** I am on the recipe finder website

**WHEN** I enter all my ingredients and search for recipes

**THEN** If am lacking ingredients

**AND** I don't have a lot of options I can make with my current pantry

**THEN** I should have the option to include other recipes with just a few extra ingredients

**WHEN** I click ‘include extra recipes’

**THEN** recipes with 1 or 2 extra ingredients will also be suggested

**Feature:** Sorting results

**As an** athlete who keeps track of their calorie intake

**I want to** makes recipes and determine their calorie count

**So that** I meet my advised calorie intake for the day

**GIVEN** I am on the recipe finder website

**WHEN** I add my ingredients

**AND** click filter by nutrients

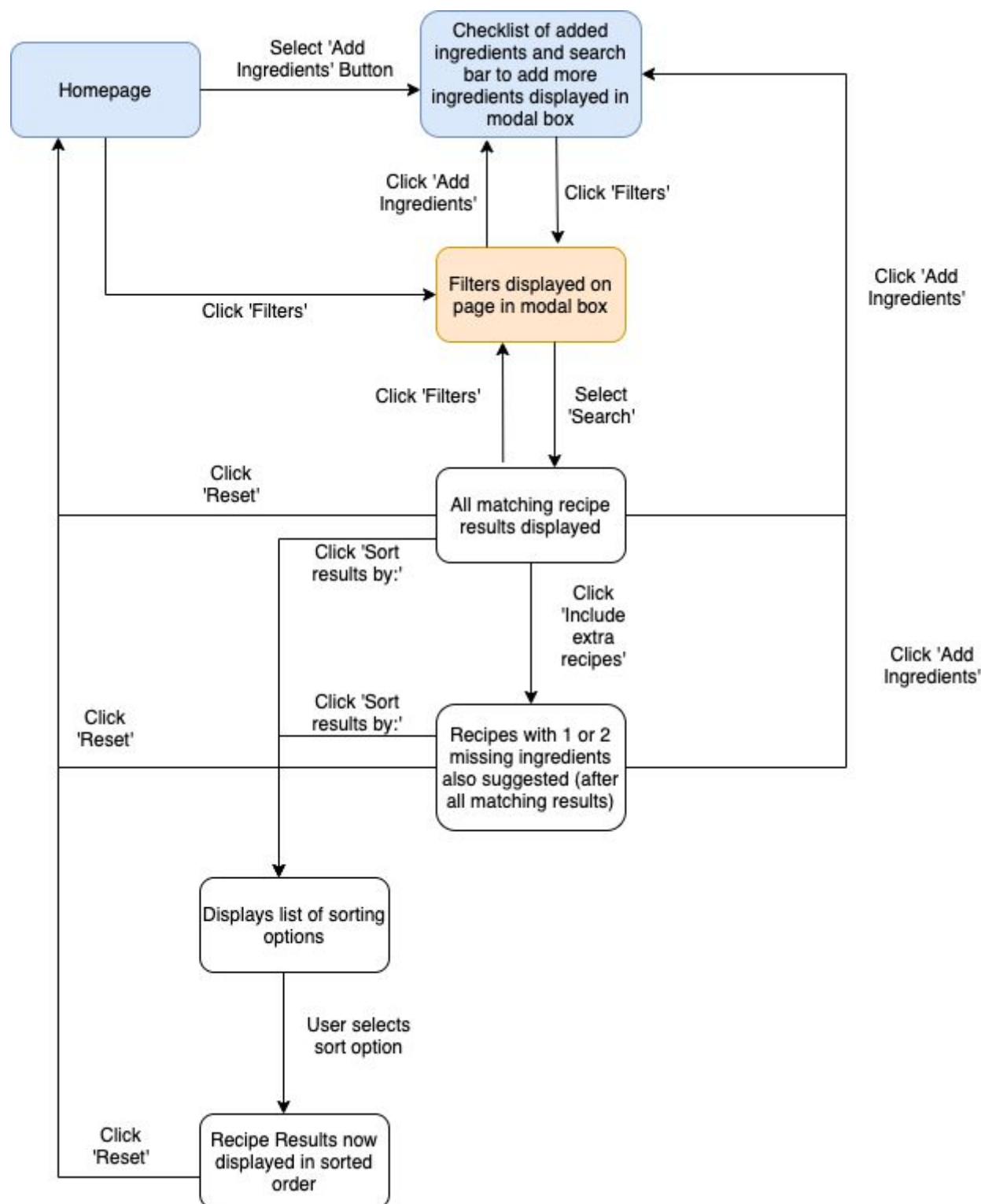
**AND** sort the results by low to high

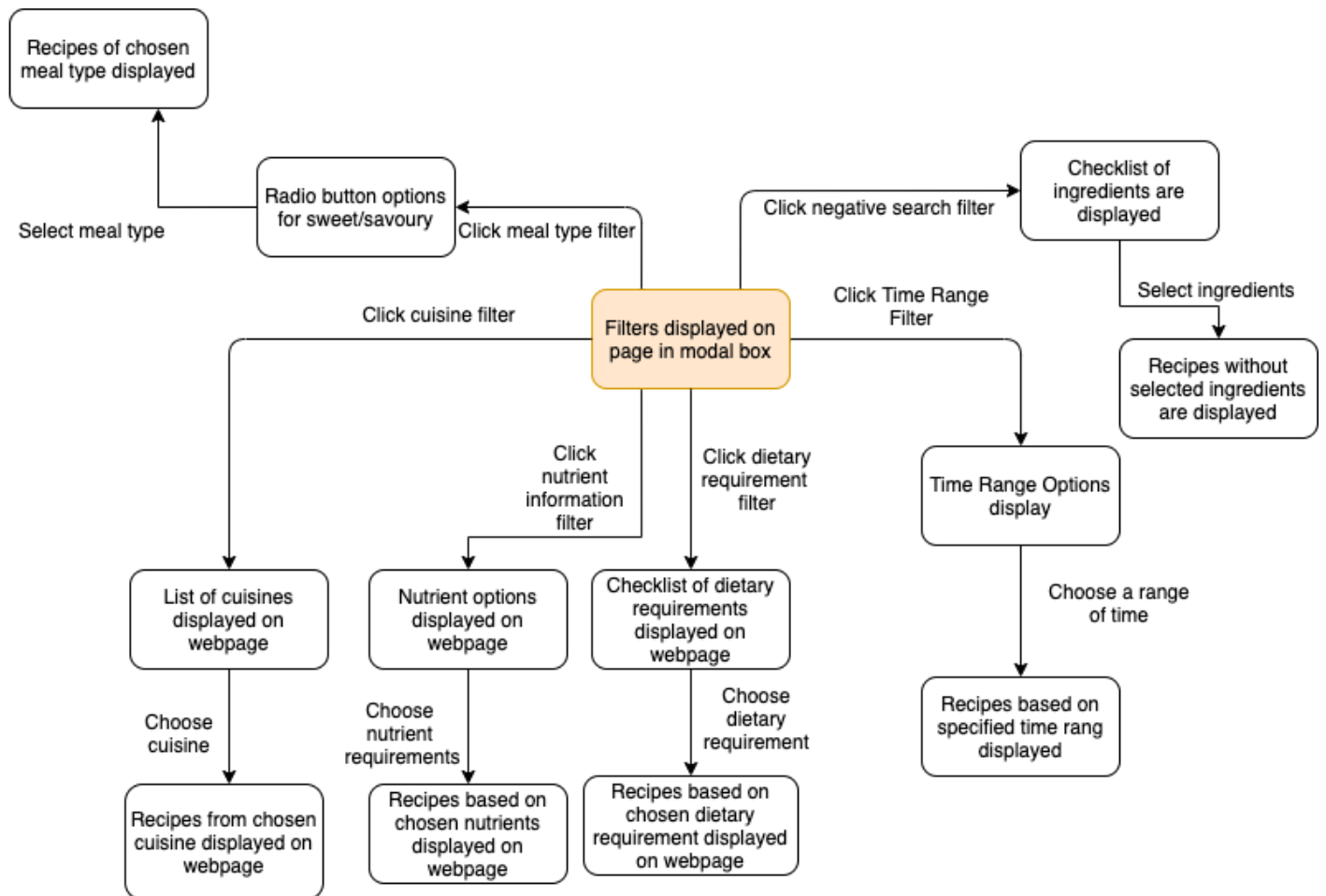
**THEN** a list of recipes beginning from the lowest calorie to the highest will be displayed.

## Part 3

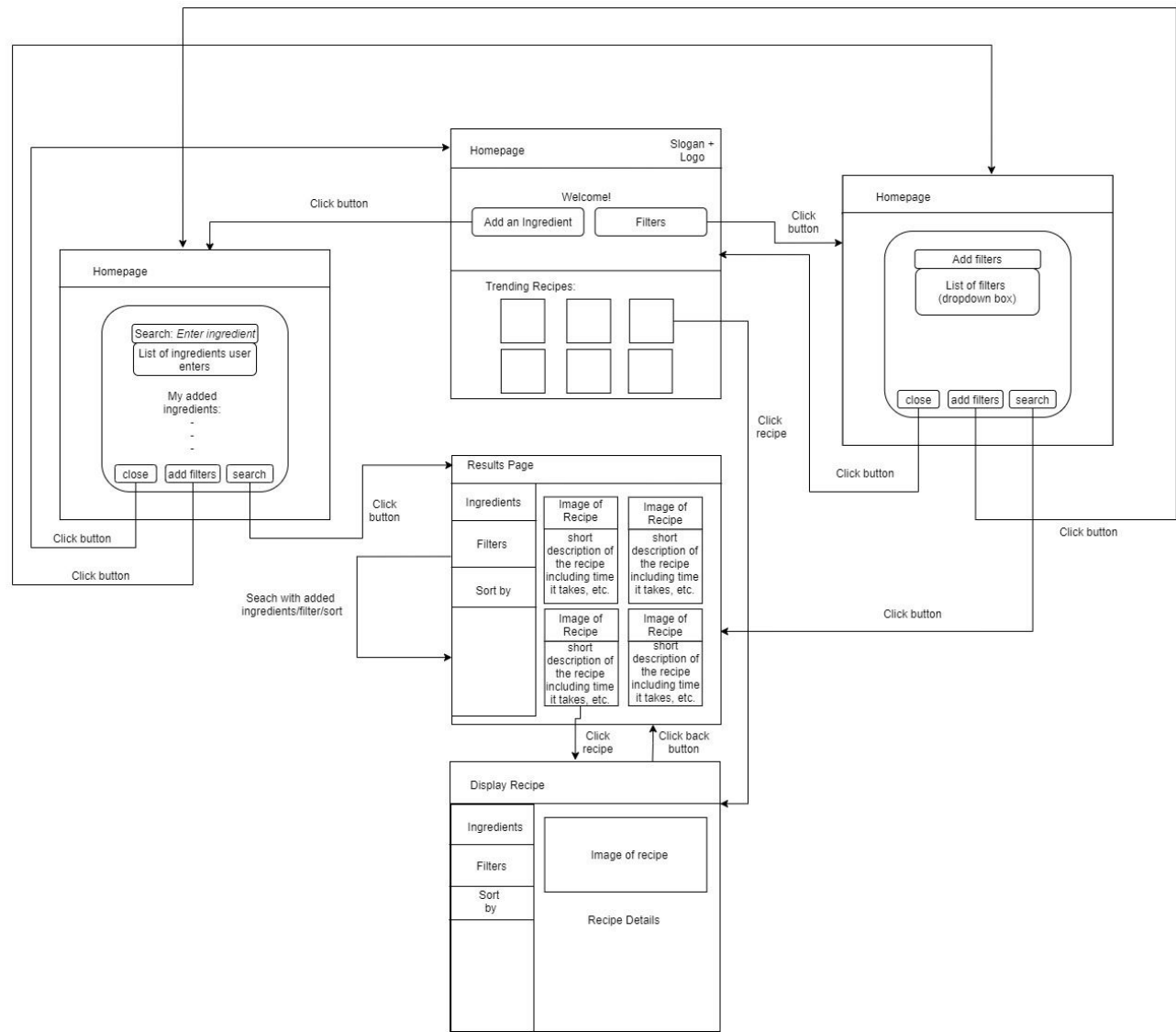
### Low-Fidelity Prototype

#### Storyboard Interactions Graphs





Storyboard Interactions + UI Component Sketches

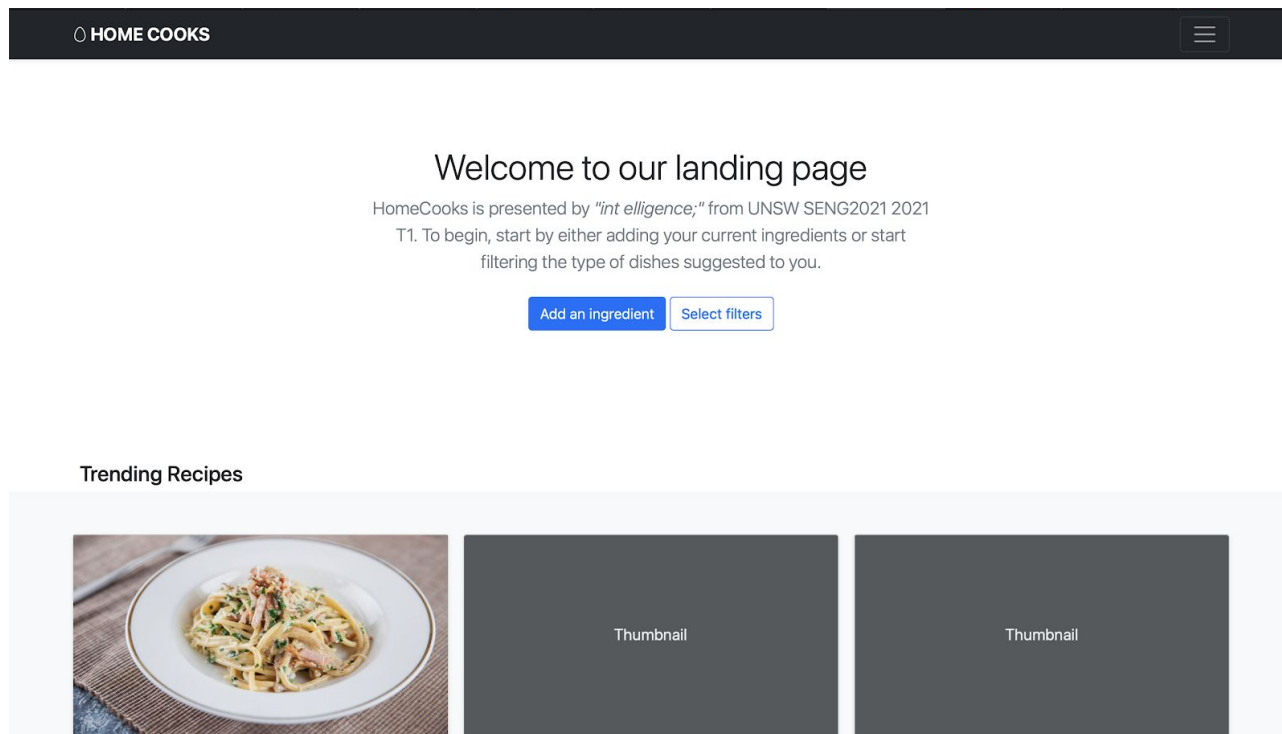




## High-Fidelity Prototype

**Website Link:** <https://int-elligence2021.github.io/>

**Home Page Screenshot:**



Results Page Screenshot

HOME COOKS

Ingredients


Filters

Sort By

Include Extra Recipes

Recipes Found

You have all the ingredients!



Creamy Carbonara

Cooking time: 10 min

Thumbnail

Recipe 2

Recipe time

Thumbnail

Recipe 3

Recipe time

Thumbnail

Thumbnail

Thumbnail

Display Page Screenshot

HOME COOKS

Ingredients


Filters

Sort By

Include Extra Recipes

Back

Creamy Carbonara



Ingredients:

☐ 8 ounces of spaghetti

☐ 2 large eggs

☐ 1/2 cup freshly grated Parmesan

☐ 4 slices bacon, dices

☐ 4 cloves garlic, minced

☐ salt and pepper

☐ (optional) parsley

Allergens: egg, wheat and gluten

Serving Size: 4

Prep time: 0:05

Cooking time: 0:10

How to make:

1. In a large pot of boiling salted water, cook pasta according to package instructions; reserve 1/2 cup water and drain well.

2. In a small bowl, whisk together eggs; set aside.

3. Heat a large skillet over medium high heat. Add bacon and cook until brown and crispy, about 6-8 minutes; reserve excess fat.

4. Stir in garlic until fragrant, about 1 minute. Reduce heat to low.

5. Medium quickly stir in pasta and egg mixture and gently toss to combine; season with salt and pepper to taste.

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